MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work:-	Improvements of drains and roads near A.S.Hanumayya house and surroundings byatarayanapura in Ward no.07 -					
	Est cost:-	20.0 lakhs.					
	Job code:	007-17-000014 | P-1771					
	A.S.No:	AS|CE(YNK)|69|16-17; dt: 31-12-16					
	T.S.No.	TS|EE(BTP)|99|16-17; dt: 06-01-17.					
	Agr.No.	No. BBMP|EE|BTP|Agr|205|16-17; dt: 08-3-17					
	W.O. No:	NO.BBMP|EE|BTP|WO|205|16-17; dt: 08-03-17.					
	Name of Agency:-	Sri.N.Venkat reddy:					
	Tender price:-	1808915.64					
	Date of completion:-						
	Date of recording:-						

Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Item.No.01:- Earthworks e supply, sanitary in trenches 1.5m and 1.5m in depth inclu trenches, stacking excavation with l Qty vide p At the rat
	Item.No.02:- loadin

SUREMENT BOOK

ber	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measureme 8
	rovements of drains and roads near				
	Hanumayya house and surroundings				
	tarayanapara in Ward no·07.				
	o lakhs.				
	7-17 - 000014 | P-1771				
	CE(YNK) | 6 9 | 16-17; dt: 31-1)-16				
	EE(BTP) | 99 | 16-17; dt: 06-01-17.				
	BBMP | EE | BTP | Agr | 205 | 16-17; dt: 08-3-17				
	BBMP | EE | BTP | WO | 205 | 16-17; dt: 08-03-17.				
	N·Venkat reddy:				
	8915·64				

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

191948

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item·No·01:-						
	Earthworks excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1·5m and above in width, in ordinary soil not exceeding 1·5m in depth including dressing the bottom and sides of pits & trenches, - tacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete.						
	Qty vide page No. 1920		191974 →			290·05 cum	
	At the rate of Rs: 83·16 →						24118·90
	Item·No·02:- loading and unloading charges:						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide Item No.01 →		290.03 cum				
	At the rate of Rs. 94.82 →						27500.0
	Item No.02:-						
	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms thick well compacted in foundation & plinth, including cost of all materials labour, HOM of machinery, curing complete.						
	Qty vide page No. 1921/19 1976 →				132.98 cum		
	At the rate of Rs: 5070.6 →						674288.40
	Item No.05:-						
	Providing and fabricating TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the						

M.A.R. 57 (Rule

Measurement Book

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions		
		Number	Length	Brea
1	2	3	4	5
	adjoining members wherever necessar			
	Qty vide page No. 1921/19 197			
	At the rate of Rs 593 27.91 →			
	Item No.06:-			
	Providing and removing cente			
	propping etc., and removal of formwo			
	walls of any thickness including			
	plinth and string courses cost of			
	Qty vide page No. 1921/ 19			
	At the rate of Rs: 306.72 →			

MEASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
No·01 →	290·03 cum				
Rs· 94·82 →					27500·0
laying in position plain cement concrete using 40mm and down size graded ine mixed, concrete laid in layers not k well compacted in foundation & plinth, l materials labour, HOM of machinery,					
e No. 1921/191976 →	132·98 cum				
g Rs: 5070·6 →					674288·40
fabricating TMT steel reinforcement for straightening, cutting, bending, hooking, apping and or welding wherever th binding wire and anchoring to the					

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

191949

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	adjoining members wherever necessary complete as per design. Qty vide page No. 1921/191976 →		0·89 tonne				
	At the rate of Rs 59327·91 →						52801·84
	Item No. 06:- Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for vertical surface such as walls of any thickness including attached pilasters, buttressed, plinth and string courses cost of all materials, labour., Qty vide page No. 1921/191977 →		132·0 Sq·m				
	At the rate of Rs: 306·72 →						40487·0

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.04:-						
	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticizers @ 3 lts confirming to IS 9103-1999 Reaffirmed.,						
	Aswath kattle road: RCC-drain:-						
	BOTTOM: 0.30	01	30.0	0.60	0.15	= 2.70	
	30.65	01	25.0	0.60	0.15	= 2.25	
	SIDEWALL: 0.30	1X2=2	30.0	0.15	0.60	= 5.40	
	30.65	1X2=2	25.0	0.15	0.60	= 4.50	
						14.85 cum	
	At the rate of Rs. 6198.12 →						92042.0
	Item No.10:-						
	Providing and fixing 10cms thick slab using reinforced cement concrete aggregate 20mm and down size including				pre cast RCC covering M20 mix with stone centering,		

M.A.R. 57 (Ru

Measurement

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimens	
		Number	Length
1	2	3	4
	shuttering reinforcement and bar b		
	laid in layers not exceeding 15cm		
	materials labour curing comple		
	Aswath kattle road:- RCC-drain:-		
		82	0.9
	At the rate of Rs 1836.0 →		
	Item No.03:-		
	Providing and laying in posi		
	1:2:4 with cement @ 240 kgs with 2		
	metal coarse aggregates @ 0.69		
	cum, machine mixed concrete laid		
	complete.,		

EASUREMENT BOOK

Dimensions				Contents	Reference to last Measuremer
lumber 3	Length 4	Breadth 5	Depth 6	7	8
laying in position reinforced cement					
nix M20 with OPC cement @ 320 kgs with					
graded granite metal coarse aggregates					
aggregates @ 0.45 cum with superplasti-					
ng to IS 9103-1999 Reaffirmed.)					
RCC-drain:-					
01	30.0	0.60	0.15	= 2.70	
01	25.0	0.60	0.15	= 2.25	
x2=2	30.0	0.15	0.60	= 5.40	
x2=2	25.0	0.15	0.60	= 4.50	
				14.85 cum	92042.0
Rs. 6198.12 →					
fixing 10 cms thick			pre cast RCC covering		
d cement concrete			M20 mix with stone		
and down size including			cost/curing,		

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

Serial No..... 191950

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	shuttering reinforcement and bar bending machine mixed concrete						
	laid in layers not exceeding 15 cm thick well compacted cost of all						
	materials labour curing complete as per specifications.						
	Aswath Kattle road:- RCC-drain:-						
		82	0.9	-	-	= 73.80 Sq.m	
							1354 96.80
	At the rate of Rs 1836.0 →						
	Item No.03:-						
	Providing and laying in position plain cement concrete of mix						
	1:2:4 with cement @ 240 kgs with 20mm and down size graded granite						
	metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.45						
	cum, machine mixed concrete laid in layers not exceeding 15 cm, thick						
	complete.)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Temporary shed - for Midday meals;						
	(near ward office)	01	20.0	3.0	0.15	= 9.0	
	Mughthmmaiha road:						
	0-15	01	15.0	2.5	0.15	= 5.63	
	15-30	01	15.0	2.5	0.15	= 5.63	
	30-45	01	15.0	2.5	0.15	= 5.63	
	45-57	01	12.0	2.5	0.12	= 3.60	
						29.48 cum	
	At the rate of Rs: 5490.- 2 cum →					161866.40	
						161647-	
	Item. No. 07:-						
	Providing and laying in cement concrete using 20mm & down size granite coarse aggregate and fine aggregates of ready mixed (RMC) for RC works laid in 15cm thick layers and well compacted vibrating, curing ... etc.)						

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	
	Near sai ram provis	
	0-15	0
	15-30	01
	30-45.5	01
	45.5-60	01
	60-66	01
	cross road: 0-21	0
	Road towards Amrutt	
	0-10	0
	10-25	0
	25-40	0
	40-55	0
	55-69	0

SUREMENT BOOK

er	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measureme 8
	day meals :				
	20·0	3·0	0·15	= 9·0	
	15·0	2·5	0·15	= 5·63	
	15·0	2·5	0·15	= 5·63	
	15·0	2·5	0·15	= 5·63	
	12·0	2·5	0·12	= 3·60	
				29·48 cum	
	5490·72 cum →			161866·40	
				161647 —	

ng in cement concrete using romm & aggregate and fine aggregates of ace works laid in 15mm thick layers vibrating, curing .. etc.)

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

191951

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Near sai ram provision stores:-						
	0-15	01	15·0	2·0	0·15	= 4·50	
	15-30	01	15·0	2·0	0·15	= 4·50	
	30-45·5	01	15·5	3·0	0·15	= 6·98	
	45·5-60	01	14·5	3·0	0·15	= 6·53	
	60-66	01	6·0	3·0	0·15	= 2·70	
	cross road: 0-21	01	21·0	3·70	0·18	= 11·66	
						36·87 cum	
	Road towards Amruthahalli colony:						
	0-10	01	10·0	3·4	0·12	= 4·08	
	10-25	01	15·0	4·2	0·12	= 7·56	
	25-40	01	15·0	4·0	0·15	= 9·0	
	40-55	01	15·0	3·6	0·15	= 8·10	
	55-69	01	14·0	5·2	0·15	= 10·92	
						39·66 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Bathroom in each house:						
	0-15	01	15.0	2.50	0.10	= 3.75	
	15-30	01	15.0	2.50	0.10	= 3.75	
	30-45	01	15.0	2.50	0.10	= 3.75	
	45-60	01	12.0	2.50	0.10	= 2.50	
				TOTAL=	89.15cum	13.75 cum	
	At the rate	of Rs.	4425.0 →				394488.75
	Item.No.08:- Providing and constructing granite/trap/basalt rige stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 30cms high, bond stones at 2m apart in each course including cost of materials, labour, curing etc.,						
	Below slabs:	12.0	0.30	0.30	0.45	= 0.49 cum	
	At the rate	of Rs.	3456.0 →				1694.0
	Item.No.09:- Providing ruled pointing of course stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth						

Serial No.....

Name of work.....Fro

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	of 20mm nicely lining, incl etc., complete as per speci	
	Below slabs walls:-	12.0
	At the rate of Rs. 35	
	Item.No.13:- Providing flooring using cement mortar 1:6, 2 bed or top of roof laid t slurry mixed with pigment including cost of materia	

EASUREMENT BOOK

Number 3	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measureme 8
	15·0	2·50	0·10	= 3·75	
	15·0	2·50	0·10	= 3·75	
	15·0	2·50	0·10	= 3·75	
	12·0	2·50	0·10	= 2·50	
	19/11	TOTAL=	89·15 cum	13·75 cum	
Rs.	4425·0 →			39488·75	

construction granite/trap/basalt rige
tion with cement mortar 1:6, stone
courses not less than 30cms high, bond
each course including cost of materials,

0	0·30	0·30	0·45 =	0·49 cum
Rs.	3456·0 →			1694·0

pointing of course stone masonry with
m deep, after raking joints to depth

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

191952

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	of 20mm nicely lining, including cost of materials, labour, curing etc., complete as per specifications & directions of the engineer:						
	Below slabs walls:-	12·0	-	0·45	-	= 5·4 sqm	
							193·0
	At the rate of Rs. 35·64 →						
	Item No.13:-						
	Providing flooring with 20mm thick polished cadapa slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, complete.,						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For seatings:-	01	26.0	0.45	-	= 11.70	
		01	3.6	0.60	-	= 2.16	
						13.86 Sq.m	
	Qty Utd to 13.5 Sqm.						15254:0
	At the rate of Rs: 1129.96 →						
	Item.No.11:-						
	Supplying and fixing M.S. Rectangular poles made out of 2 equals angles 65×65×6mm welded together and fixed in CC (1:2:4) mos 16mm dia M.S hold fast roads each of length 25cm, including cost of all materials, cutting, bending, scaffolding wherever necessary, nicely finishing the welded joints with all leads lifts and as per the direction of the Engineer-in-charge.						
	1) Poles (support)	1×8=8	2.50	-	-	= 20.0	
	2) Horizontal	1×4=4	2.50	-	-	= 10.0	
	3) Ward off fencing repair.	1×22=22	2.10	-	-	= 46.2	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	4) Vertical.	1×
	Qty Utd	
	At the rate of Re	
	Item.No.12:-	
	Providing and	
	semi corrugated PVC	
	2.0m thick white colo	
	of 1.054m, fixed with	
	existing purlins, ra	

EASUREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measureme 8
01	26.0	0.45	-	= 11.70	
01	3.6	0.60	-	= 2.16	
				13.86 Sqm	
lo. 13	.5 Sqm.				15254.0
of Rs:	1129.96 →				

fixing M.S. Rectangular poles made out of
×6mm welded together and fixed in CC (1:2:4)
d fast roads each of length 25cm, including
, cutting, bending, scaffolding wherever
shing the welded joints with all leads
direction of the Engineer-in-charge.

×8=8	2.50	-	-	= 20.0	
×4=4	2.50	-	-	= 10.0	
×22=22	2.10	-	-	= 46.2	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 191953

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	4) Vertical.	1×3=3	20.0	-	- =	60.0	
						136.20m	
			Qty ltd to 135.0m				131365.80
			At the rate of Rs. 973.08 →				

Item No. 12:-

Providing and fixing require line and slope roofing with semi corrugated PVC roofing sheets of industrial profile 250/40 in 2.0m thick white colour, fire and heat resistant having width of 1.054m, fixed with self tapping screws with washers, over the existing purlins, rafters and self tapping screws with

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	washers, over the existing purlins, rafters and trusses including cost of materials, labour, curing, polishing complete as per specifications:						
	Shed covering:-	01	20.0	3.0	-	= 60.0 sq.m	
	At the rate of Rs. 901.0 →						54060.0
						GRAND TOTAL = 1805656.90	

Asstant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Fully N.D
AE(W7)

M.A.R. 57 (
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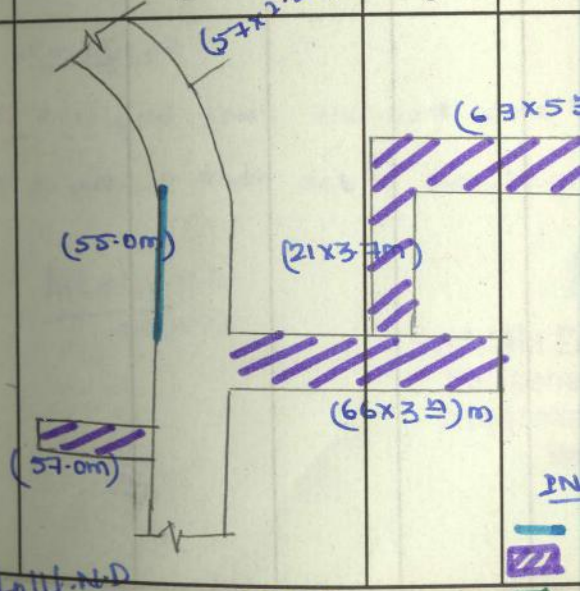
Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Di
		Number
1	2	3



Fully N.D
AE(W7)

MEASUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
ating	pucking, rafter and trusses				
erials	, labour, curing, polishing complete				
01	20.0	3.0	-	= 60.0 sq.m	
					54060.0
g Rs.	901.0 →				
				GRAND TOTAL = 1805656.90	

Fully.N.D
AE(W7)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 191954

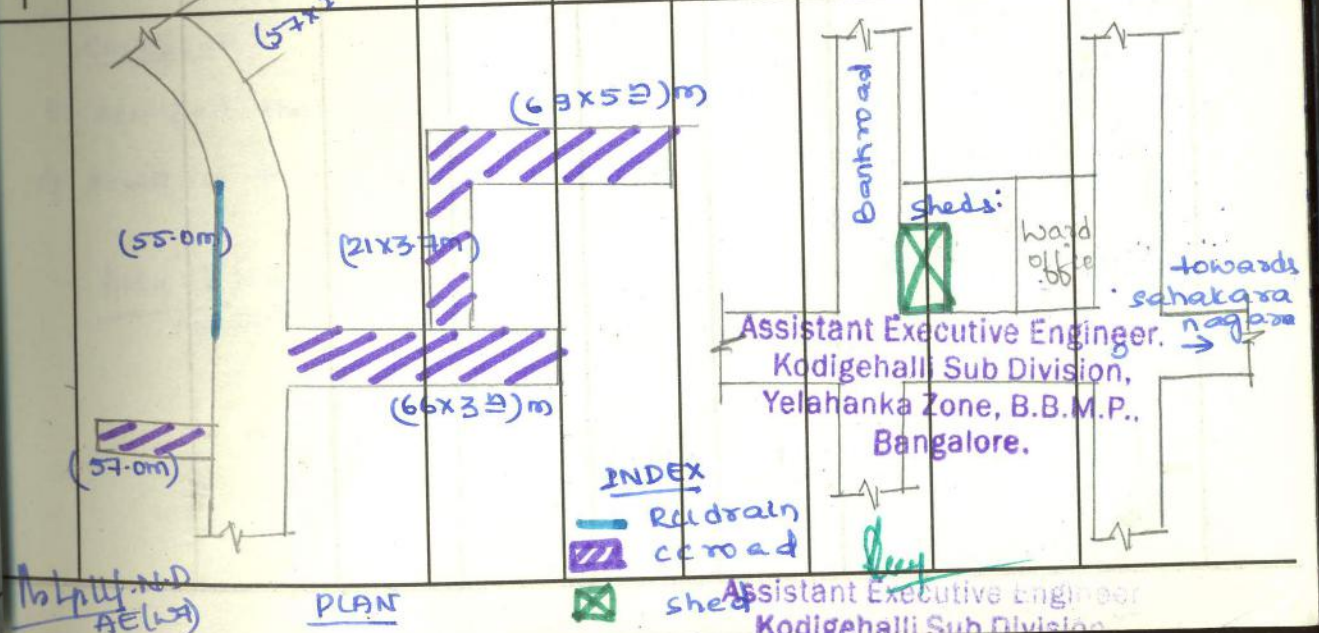
Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(57x2.5m)						
	(55.0m)						
	(21x3.7m)						
	(69x5.5)m						
	(66x3.5)m						
	(57.0m)						



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Fully.N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer
Kodigehalli Sub Division

MEASUREMENT BOOK

ROYALTY - CHARGES.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Jelly		Sand :		
Sl. NO.	Details.						
02	40mm Jelly						
03	1:2:4						
04	Reinforced conc:						
07	RMC :						
10	RCC slabs:						
	TOTAL:						
	ABSTRACT:						
1)	Coarse-aggregate:						
2)	fine-aggregate:						

Serial No.....

Name of work.....

Name of Contractor of nature of Ag

Date of commencement of work....

Date	Full description, etc, of work
1	2
	Certificate :
1)	Certified that th
2)	Certified that de
	Apply N.D
	AE(WS)

IEASUREMENT BOOK

Dimensions				Contents	Reference to last Measureme
Number 3	Length 4	Breadth 5	Depth 6	7	8
	Jelly	Sand :			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

Serial No..... 191955

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Certificate:						
	1) Certified that the work done by the contractor is satisfactory						
	2) Certified that debris has been removed from the work spot:						
	Mtplg. N.D AE(WS)					Accepted all measurements with full & final settlement	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Today Rs. 18,05,356-00		
					IT - 180.57-0		
					VAT - 72226-00		
					Cess - 18057-00		
					CBF - 1806-00		
					LR - 14626.00		
					Adju. - 124772-00		
					Clagr 16,80,584-00		

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 18,05,356-00

ಗುತ್ತಿಗೆ ಪಾರು ಮಾಡಿದೆ: ಇದರಲ್ಲಿ ರೂ 124772-00

ಕಡಿತಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 16,80,584-00

Rs: Sixteen Lakh eighty thou

Five eight hundred eighty four only

ಮೊತ್ತಕ್ಕೆ ಚೀಟಿ ನೀಡಲಾಗಿದೆ

ಸಹಾಯಕ ಇಂಜಿನಿಯರು

17/11

ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರು

17/11

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Serial No.....

Name of work.....

Name of Contractor of nature of Agency.

Date of commencement of work.....

Date	Full description, etc, of work
1	2